

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/531,805
Source: PCT
Date Processed by STIC: 6/7/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/531,805

CRF Edit Date: 6/7/06
Edited by: AE

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ-ID NO's edited:

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other:
corrected <1507 response



PCT

RAW SEQUENCE LISTING

DATE: 06/07/2006

PATENT APPLICATION: US/10/531,805

TIME: 11:03:01

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\06072006\J531805.raw

```

3 <110> APPLICANT: Michaels, Frank
5 <120> TITLE OF INVENTION: TRANSMUCOSAL ADMINISTRATION OF AGGREGATED ANTIGENS
7 <130> FILE REFERENCE: 59046.000039
9 <140> CURRENT APPLICATION NUMBER: 10/531,805
10 <141> CURRENT FILING DATE: 2005-04-18
12 <150> PRIOR APPLICATION NUMBER: PCT/US03/33178
13 <151> PRIOR FILING DATE: 2003-10-17
15 <150> PRIOR APPLICATION NUMBER: 60/419,279
16 <151> PRIOR FILING DATE: 2002-10-17
18 <160> NUMBER OF SEQ ID NOS: 3
20 <170> SOFTWARE: PatentIn version 3.3
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 669
24 <212> TYPE: DNA
25 <213> ORGANISM: Homo sapiens
27 <400> SEQUENCE: 1
28 taggcataaa ttggtctgcg caccagcacc atgcaacttt ttcacctctg cctaatacatc      60
30 tcttggttcat gtcctactgt tcaagcctcc aagctgtgcc ttgggtggct ttggggcatg      120
32 gacatcgacc cttataaaga atttggagct actgtggagt tactctcggt tttgccttct      180
34 gacttctttc cttcagtagc agatcttcta gataccgctt cagctctgta tcgggaagcc      240
36 ttagagtctc ctgagcattg ttcacctcac catactgcac tcaggcaagc aattctttgc      300
38 tgggggggaac taatgactct agctacctgg gtgggtgtta atttgaaga tccagcgtct      360
40 agagacctag tagtcagtta tgtcaacact aatatgggcc taaagttcag gcaactcttg      420
42 tggtttcaca ttctctgtct cacttttgga agagaaacag ttatagagta tttggtgtct      480
44 ttcggagtggt ggattcgcac tcctccagct tatagaccac caaatgcccc taccctatca      540
46 acacttccgg agactactgt tgtagacga cgaggcaggt cccctagaag aagaactccc      600
48 tcgctcgca gacgaaggtc tcaatcgccg cgtcgcagaa gatctcaatc tcgggaatct      660
50 caatgttag
53 <210> SEQ ID NO: 2
54 <211> LENGTH: 219
55 <212> TYPE: PRT
56 <213> ORGANISM: Homo sapiens
58 <400> SEQUENCE: 2
60 Ile Gly Leu Arg Thr Ser Thr Met Gln Leu Phe His Leu Cys Leu Ile
61 1 5 10 15
64 Ile Ser Cys Ser Cys Pro Thr Val Gln Ala Ser Lys Leu Cys Leu Gly
65 20 25 30
68 Trp Leu Trp Gly Met Asp Ile Asp Pro Tyr Lys Glu Phe Gly Ala Thr
69 35 40 45
72 Val Glu Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Val Arg
73 50 55 60
76 Asp Leu Leu Asp Thr Ala Ser Ala Leu Tyr Arg Glu Ala Leu Glu Ser
77 65 70 75 80

```

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```

80 Pro Glu His Cys Ser Pro His His Thr Ala Leu Arg Gln Ala Ile Leu
81                               85                90                95
84 Cys Trp Gly Glu Leu Met Thr Leu Ala Thr Trp Val Gly Val Asn Leu
85                               100               105               110
88 Glu Asp Pro Ala Ser Arg Asp Leu Val Val Ser Tyr Val Asn Thr Asn
89                               115               120               125
92 Met Gly Leu Lys Phe Arg Gln Leu Leu Trp Phe His Ile Ser Cys Leu
93                               130               135               140
96 Thr Phe Gly Arg Glu Thr Val Ile Glu Tyr Leu Val Ser Phe Gly Val
97 145                150                155                160
100 Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu
101                               165                170                175
104 Ser Thr Leu Pro Glu Thr Thr Val Val Arg Arg Arg Gly Arg Ser Pro
105                               180                185                190
108 Arg Arg Arg Thr Pro Ser Pro Arg Arg Arg Arg Ser Gln Ser Pro Arg
109                               195                200                205
112 Arg Arg Arg Ser Gln Ser Arg Glu Ser Gln Cys
113                210                215
116 <210> SEQ ID NO: 3
117 <211> LENGTH: 168
118 <212> TYPE: PRT
119 <213> ORGANISM: Artificial
121 <220> FEATURE:
122 <223> OTHER INFORMATION: HBcAG
124 <400> SEQUENCE: 3
126 Met Gln Ala Ser Lys Leu Cys Leu Gly Trp Leu Trp Gly Met Asp Ile
127 1                5                10                15
130 Asp Pro Tyr Lys Glu Phe Gly Ala Thr Val Glu Leu Leu Ser Phe Leu
131                20                25                30
134 Pro Ser Asp Phe Phe Pro Ser Val Arg Asp Leu Leu Asp Thr Ala Ser
135                35                40                45
138 Ala Leu Tyr Arg Glu Ala Leu Glu Ser Pro Glu Cys His Ser Pro His
139                50                55                60
142 His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu Met Thr
143 65                70                75                80
146 Leu Ala Thr Trp Val Gly Val Asn Leu Glu Asp Pro Ala Ser Arg Asp
147                85                90                95
150 Leu Val Val Ser Tyr Val Asn Thr Asn Met Gly Leu Lys Phe Arg Gln
151                100               105               110
154 Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe Gly Arg Glu Thr Val
155                115               120               125
158 Ile Glu Tyr Leu Val Ser Phe Gly Val Trp Ile Arg Thr Pro Pro Ala
159                130               135               140
162 Tyr Arg Pro Pro Asn Ala Pro Ile Leu Ser Thr Leu Pro Glu Thr Thr
163 145                150                155                160
166 Leu Glu His His His His His His
167                165

```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/07/2006
PATENT APPLICATION: US/10/531,805 TIME: 11:03:02

Input Set : A:\PTO.AMC.txt
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3

VERIFICATION SUMMARY

PATENT APPLICATION: **US/10/531,805**

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